CSE 360

Individual Homework 3

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1. A Listing of the Five Automated Tests

1. Students can update their questions

2. Students can update their answers (After an answer is posted a student/user can change the content and it is updated on the discussion board)

3. Students can select a question and propose an answer. (When a student or user posts an answer it's visible on the discussion board)

4. Students cannot propose answers if no selected question is valid. (When a student tried to post an answer with no selected question, error will be displayed informing student)

5. Students can propose multiple answers to a selected question. (Will allow multiple responses to selected question, to then verify best answer in another implementation)

2. A Description of the Five Automated Test

Test 1: Update Question Functionality
This test validates that students can successfully modify their previously posted questions on the discussion board. It creates a sample question with initial content, then simulates a student editing both the title and body of the question. The test confirms that all changes are properly saved to the database and persist when retrieved. This ensures the editing capability works correctly, allowing students to correct mistakes or provide additional information in their questions after initial posting.

Test 2: Update Answer Capability
This test validates that students can edit their existing answers to improve clarity or correct information. After creating a test question and corresponding answer, the test modifies the answer content and verifies the update is correctly stored in the database. This functionality is crucial for maintaining accurate information on the discussion board, as it allows students to refine their responses based on new insights or to fix errors without needing to delete and repost answers.

Test 3: Answer Proposal to Questions
This test validates that students can successfully post answers to specific questions on the discussion board. It creates a target question and then simulates a student proposing a solution, verifying that the answer is visible and properly associated with the correct question. The test ensures the fundamental question-answer relationship is maintained, allowing discussions where responses are clearly linked to their corresponding questions for easy navigation and comprehension.

Test 4: Invalid Answer Prevention
This negative test validates system integrity by verifying that students cannot post answers without first selecting a valid question. It attempts to create an answer with an invalid question identifier and confirms the system properly rejects this operation by throwing appropriate error messages. This validation prevents orphaned answers and maintains data consistency within the discussion board

Test 5: Multiple Answer Support
This test validates that the discussion board supports multiple students providing answers to the same question. It creates one question and then simulates several different students posting responses, verifying that all answers are properly stored and associated with the correct question. This functionality enables collaborative environments where multiple perspectives can be shared.

3. The Link to the HW3 Code in Your Personal Repository

https://github.com/kshin26/HW3.git

To run the program, Clone the repository, setup environment, Run HW3Testbed.java in src/application as java application

4. The Link to the Source for Your Javadoc Inspiration

https://www.jetbrains.com/help/idea/javadocs.html

This IntelliJ IDEA tutorial clearly explains how to write, view, and generate Javadoc documentation directly inside the IDE. It stands out because it shows both the practical steps, like adding comments with /**, using tags such as @param and @author, and generating an HTML reference, and the helpful features IntelliJ provides, like automatically completing Javadoc stubs, rendering comments for easier reading, and fixing outdated or missing tags. I liked this one because it was easily applicable to my own Java file, while showing examples from professional documents.

Please click the inserted pdf object for my Javadoc. It is also available through my repository.

HW3Testbed
Javadoc.pdf

5. The Link to Your Screencast

https://youtu.be/0ISZvBxW2B4